

WARRANTY

This SHARP Calculator was thoroughly inspected and tested prior to shipment. It is important that the operating instructions be carefully read before placing the calculator into use. For a period of one (1) year from the date of purchase by the original customer, SHARP Electronics Corporation will repair or replace without charge any part of this product (*Parts Excluded From This Warranty Are Listed Under Warranty Exceptions) found to be defective due to materials or workmanship if it is returned either to the place of purchase or to one of the Sharp Factory Service Centers listed on the back cover of this booklet. This warranty is void if this product has been subjected to misuse or abuse, Connection to an improper voltage, Has been tampered with or repaired by an unauthorized person, Or has been damaged due to improper customer packaging.

IMPORTANT:

This warranty is valid only when accompanied at the time of repair by a proof of purchase listing the date of purchase and the model and serial numbers.

***WARRANTY EXCEPTIONS:** Batteries, carrying case, carrying strap

NOTE: Shipping charges from the purchaser to a SHARP Factory Service Center will be the sole responsibility of the purchaser.

1. INTRODUCTION



Small, fast, and easy. That's our new handy pocket size EL-8005S. Yet you can perform complicated calculations up to 8 digits.

Printed in Japan

INSTRUCTION MANUAL

SHARP COMPET

EL-8005S

ELECTRONIC CALCULATOR



SHARP ELECTRONICS CORPORATION
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2. OUTSTANDING FEATURES

- ★ Easy-to-read zero suppress system
- ★ Overflow error check device
- ★ Easy-to-operate algebraic operation
- ★ Convenient tax/discount calculation
- ★ Automatic constant calculation
- ★ Percentage calculation
- ★ Power calculation
- ★ Chain multiplication and division
- ★ Algebraic operation system
- ★ Approximate results in excess of 8 digits

3. KEY LAYOUT CHART



CAUTION

1. When the voltage of the battery is lowered, the display will become dark. In such a case please exchange the battery with new one.
2. In case you do not use this calculator for a long time, please take out the battery and preserve it in a dry, cool and shady place.

4. OVERFLOW ERROR

Overflow error occurs in the following cases.

1. When the integer portion of the entered number exceeds 8 digits.
2. When the integer portion of sum, difference, product or quotient exceeds 8 digits.
3. When a number is divided by zero.

As for the case 1, the upper significant 8 digits and overflow error symbol turn on.

As for the case 2, the upper significant 8 digits of the result is divided by (100000000) and then displayed on the display tube, and an overflow error symbol (\overline{E}) turns on. (The symbol (\overline{E}) turns on when the result is negative.)

Therefore, the decimal point of the displayed number means the unit of one hundred million.

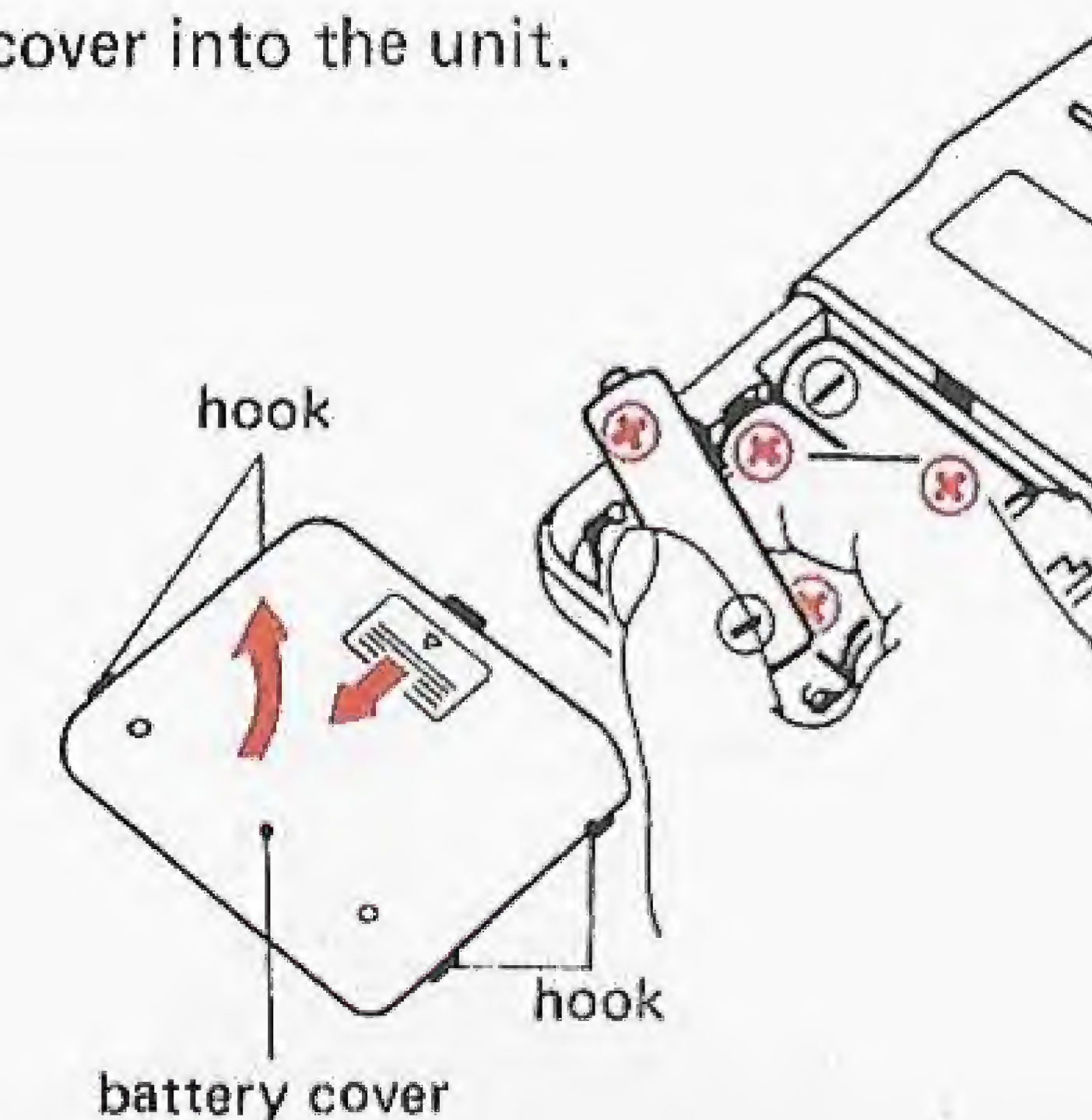
While as for the case 3, the display tube is occupied by a zero and overflow error symbol (\overline{E}) turns on.

An overflow error electronically interlocks all keys except the **C** key. An overflow error is released by pressing the **C** key.

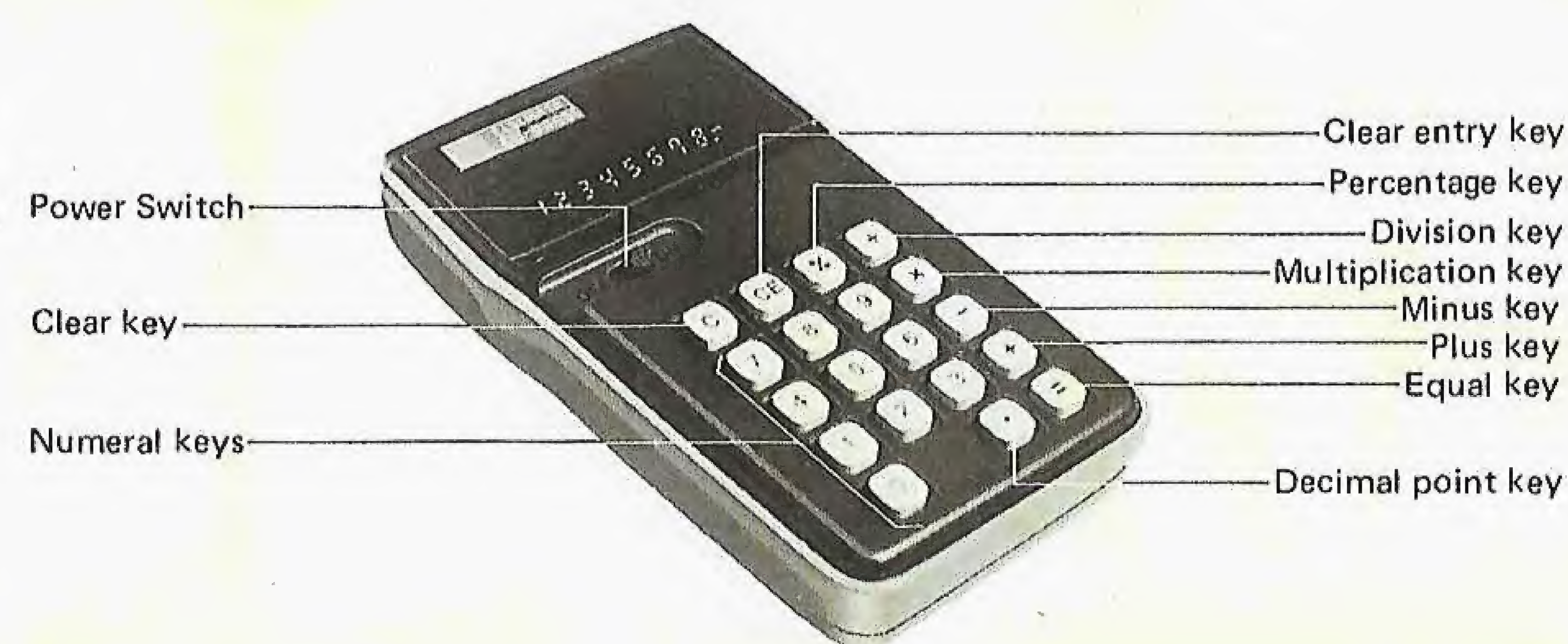
But, in case of 1 and 2 is released by pressing the **CE** key.

5. HOW TO REPLACE THE DRY BATTERY

1. First set the power switch at off position.
2. Slide the battery cover in the direction of an arrow mark and take it out.
3. Put SUM-3E type dry battery (x4) in the unit. Take care not to mistake battery polarity.
4. Slide the battery cover into the unit.



6. KEY LAYOUT CHART



7. OPERATIONS

CALCULATION EXAMPLES

(1) Addition & Subtraction

	Examples	Operation
1.	$1.23 + 456 - 458 + 3 = 2.23$	$1.23 \text{ + } 456 \text{ - } 458 \text{ + } 3 \text{ = } \rightarrow 2.23$
2.	$123 + 456.7 - 3 + 0.9999 + 1.3001 = 579$	$123 \text{ + } 456.7 \text{ - } 3 \text{ + } .9999 \text{ + } 1.3001 \text{ = } \rightarrow 579.$

(2) Multiplication & Division

	Examples	Operation
1.	$3.6 \times 42.8 = 154.08$	$3.6 \text{ x } 42.8 \text{ = } \rightarrow 154.08$
2.	$(-264) \div 12 = -22$	$\text{C } - 264 \div 12 \text{ = } \rightarrow 22.-$

(7) Percentage calculation

	Examples	Operation
1.	$100 \times (20\%) = 20$ $5 \div (9\%) = 55.555555 \dots$	$100 \text{ x } 20 \text{ \% } \rightarrow 20.$ $5 \div 9 \text{ \% } \rightarrow 55.555555$
2.	$5 \times (9\%) = 0.45$ $5 \times (6\%) = 0.3$ $5 \times (7\%) = 0.35$	$5 \text{ x } 9 \text{ \% } \rightarrow 0.45$ $6 \text{ \% } \rightarrow 0.3$ $7 \text{ \% } \rightarrow 0.35$
3.	$5 \div (9\%) = 55.555555 \dots$ $6 \div (9\%) = 66.666666 \dots$ $7 \div (9\%) = 77.777777 \dots$	$5 \div 9 \text{ \% } \rightarrow 55.555555$ $6 \text{ \% } \rightarrow 66.666666$ $7 \text{ \% } \rightarrow 77.777777$

(8) Approximate calculation

	Examples	Operation
1.	$123456 \times 78901 = 9740801856$	$123456 \text{ x } 78901 \text{ = } \rightarrow 97.408018$ $(97.408018 \times 10^8 = 9740801800)$

(8) Correcting mistakes

Ex. 1 $123 + 556$ (mistake) 456 (correct)

Operation

$123 \text{ + } 556 \text{ CE } 456 \text{ = } \rightarrow 579.$

Ex. 2 $123 - 556$ (mistake) 456 (correct)

Operation

$123 \text{ - } 556 \text{ CE } 456 \text{ = } \rightarrow 333.-$

Ex. 3 5×8 (mistake) 9 (correct)

Operation

$5 \text{ x } 8 \text{ CE } 9 \text{ = } \rightarrow 45.$

(3) Power calculation & Reciprocal calculation

	Examples	Operation
1.	$5^2 = 25, 5^3 = 125, 5^4 = 625$	5 \times \Rightarrow 25. \Rightarrow 125. \Rightarrow 625.
2.	$1/5 = 0.2$	5 \div \Rightarrow 0.2

(4) Chain calculation

	Examples	Operation
1.	$10 \div 5 \times 3 = 6$	10 \div 5 \times 3 \Rightarrow 6.
2.	$1.1 \times 2.2 \times 3.3 \div 4.4 = 1.815$	1.1 \times 2.2 \times 3.3 \div 4.4 \Rightarrow 1.815

(5) Tax/discount calculation

	Examples	Operation
1.	$100 - 100 \times 0.2 = 80$	100 \times .2 $-$ \Rightarrow 80.
2.	$100 - 100 \times (20\%) = 80$	100 \times 20 $\%$ $-$ \Rightarrow 80.
3.	$100 + 100 \times 0.2 = 120$	100 \times .2 $+$ \Rightarrow 120.
4.	$100 + 100 \times (20\%) = 120$	100 \times 20 $\%$ $+$ \Rightarrow 120.

(6) Constant calculation

	Examples	Operation
1.	$1.23456 \times 3 = 3.70368$ $1.23456 \times 0.23 = 0.2839488$ $1.23456 \times 103,234.78 = 127,449.52$	1.23456 \times 3 \Rightarrow 3.70368 .23 \Rightarrow 0.2839488 103234.78 \Rightarrow 127449.52
2.	$(-5) \times 9 = (-45)$ $(-5) \times 6 = (-30)$ $(-5) \times 1.11 = (-5.55)$	\square $-$ 5 \times 9 \Rightarrow 45.- 6 \Rightarrow 30.- 1.11 \Rightarrow 5.55 -
3.	$5 \div 9 = 0.5555555 \dots$ $6 \div 9 = 0.6666666 \dots$ $18 \div 9 = 2$	5 \div 9 \Rightarrow 0.5555555 6 \Rightarrow 0.6666666 18 \Rightarrow 2.

8. SPECIFICATIONS

Power source:	Dry battery: Operates for 16 hours on four manganese (SUN) dry batteries ... at 20°C (AM-3 x 4 ... 26H) (Slightly changes according to the kinds of the batteries and the of use.) AC operation with optional AC adaptor (EA-14A).
Display:	Ittron
Capacity:	Display 8 digits
Decimal point:	Complete floating decimal point system.
Sign indicator:	Minus sign indicator (-) overflow error indicator (E, E)
Calculations:	4 arithmetic calculations, constant multiplication and division, \times multiplication and division, square calculation, power calculation, tax/discount calculation, reciprocal calculation, percentage calculation, mixed calculation.
Temperature:	0°C ~ 40°C (32°F ~ 104°F)
Components:	LSI, etc.
Power consumption:	DC: 0.45W AC: 2.4W
Dimensions:	85(W) x 26(H) x 137.5(D)mm 3-3/8"(W) x 1-1/32"(H) x 5-7/16"(D)
Weight:	225g (0.495 lbs.) (with dry batteries)

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